PROJECT - DESCRIPTION

I. GENERAL

This portion of the project involves involves the modification of the existing Traffic Control Signal at the intersection of US 1 and Madison Ave / Cleveland Ave in Prince George's County. The existing pole mounted cabinet shall be replaced with a size "6" base mounted cabinet. All Traffic Signal heads and pedestrian signal heads shall be replaced with black faced heads. The signal shall be interconnected to Oglethorpe Street to the north and to Jefferson Street to the south.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA four-phase, semi-actuated mode, with the US 1 approaches running concurrently. A pedestrian phase with pushbutton actuation shall be provided across the north leg of US 1. The pedestrian phases across Madison Ave / Cleveland Ave shall be on recall. The Madison Ave / Cleveland Ave approaches shall also run concurrently. Detection shall be provided via video detection.
- 2. A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- 2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

235 S.F.

3 C.Y.

6 EA

EQUIPMENT LIST

Α.	EQUIPMENT	TO BE	SUPPLIED.	BY	S.H.A

ITEM NO.	DESCRIPTION	QUA	NTITY
9042	Controller ASC II with telemetry	1	ΕA
9044	Controller cabinet, size "6"	1 .	EA
9086	Video detection interface equipment: 1-4 cameras (To be installed by signal shop).	1	EA
9571	Sheet aluminum signs to consist of: (mast arm)	10	SF
· \	D3-2 "Madison St " sign, (variable x 16")	1	EA

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
2001	Class 2 Excavation.	1.5 C.Y.
2002	Test Pit Excavation	2 C.Y.
5002	5" yellow heat applied permanent preformed thermoplastic pavement marking.	325 L.F.
5003	Remove existing pavement markings – any width.	375 L.F.
5005	12" white heat applied permanent preformed thermoplastic pavement marking.	510 L.F.
5006	24" white heat applied permanent preformed thermoplastic pavement marking.	100 L.F.
6001	Furnish and install depressed curb and gutter.	20 L.F.
6002	Standard type A combination curb and gutter 12" gutter pan	20 L.F.

8" depth.

4" concrete sidewalk.

for signal foundation.

Furnish and install 12"

Furnish and install concrete

pedestrian signal head section

EQUIPMENT LIST (CONT.)

DESCRIPTION

Pre-manufactured camera to

Pre-manufactured camera to

controller (200' length) cable

controller (300' length) cable

3.	EQUIPMENT	TO	BE	FURNISHED	AND/OR	INSTALLED	BY	THE	CONTRACTOR	

QUANTITY

1 EA

1 EA

	Controller (300 Tengin) Cobre		
8019	Remove and dispose of existing material and equipment per assignment.	. 1	EA
8027	Detectable warning system (truncated domes).	16	SF
8031	Furnish and install No. 6 AWG stranded bare copper ground wire.	25	L.F.
8034	Furnish and install 3" electrical conduit - galvanized riser.	70	L.F.
8035	Furnish and install 3" weatherhead.	2	EA
8039	Furnish and install 2" schedule 80 rigid polyvinyl chloride – trenched.	10	L.F.
8040	Furnish and install 3" schedule 80 rigid polyvinyl chloride – trenched.	15	L.F.
8041	Furnish and install 4" schedule 80 rigid polyvinyl chloride – trenched.	40	L.F.
8044	Furnish and install 4" schedule 80 rigid polyvinyl chloride – slotted.	60	L.F.
8046	Metered service pedestal.	1	EΑ
8048	Furnish and install electrical cable 1-conductor No. 4 AWG THHN/THWN.	15	L.F.
8054	Furnish and install electrical handhole.	1	EA
8057	Install overhead sign.	10	S.F.
8058	Furnish and install video detector camera.	. 2	EA
8075	Furnish and install ground rod $-\frac{3}{4}'' \times 10'$.	2	EA
8077	Furnish and install 12" vehicular traffic signal head section	24	EA
8083	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	190	L.F.
8085	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	280	L.F.
8086	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	635	L.F.
8090	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS BALTIMORE AVE".)	2	EA
8096	Install controller and cabinet base mount.	1 .	EA
Neg.	Furnish and install electrical cable - 1 conductor (No. 250 KCMIL)	150	L.F.
EQUIPMENT	TO BE REMOVED*		

SHA Forces shall remove the controller and all auxilliary equipment from the controller cabinet. The cabinet and all other removed signal materials are to become property of the contractor.

The contact persons for District #3 (Prince George's County)

are as follows:

Mr. Majid Shakib Assistant District Engineer - Traffic Phone: (301 513-7358

Mr. Wayne Mowdy Assistant District Engineer - Maintenance

Mr. Augie Rebish Assistant District Engineer - Utility Phone: (301) 513-7350

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787-7630

Phone: (301) 513-7304

Signal Shop 410-787-7652 Mr. Sonny Bailey

Sign Shop 410-787-7670

Mr. Ed Rodenhizer

The power company representative is:

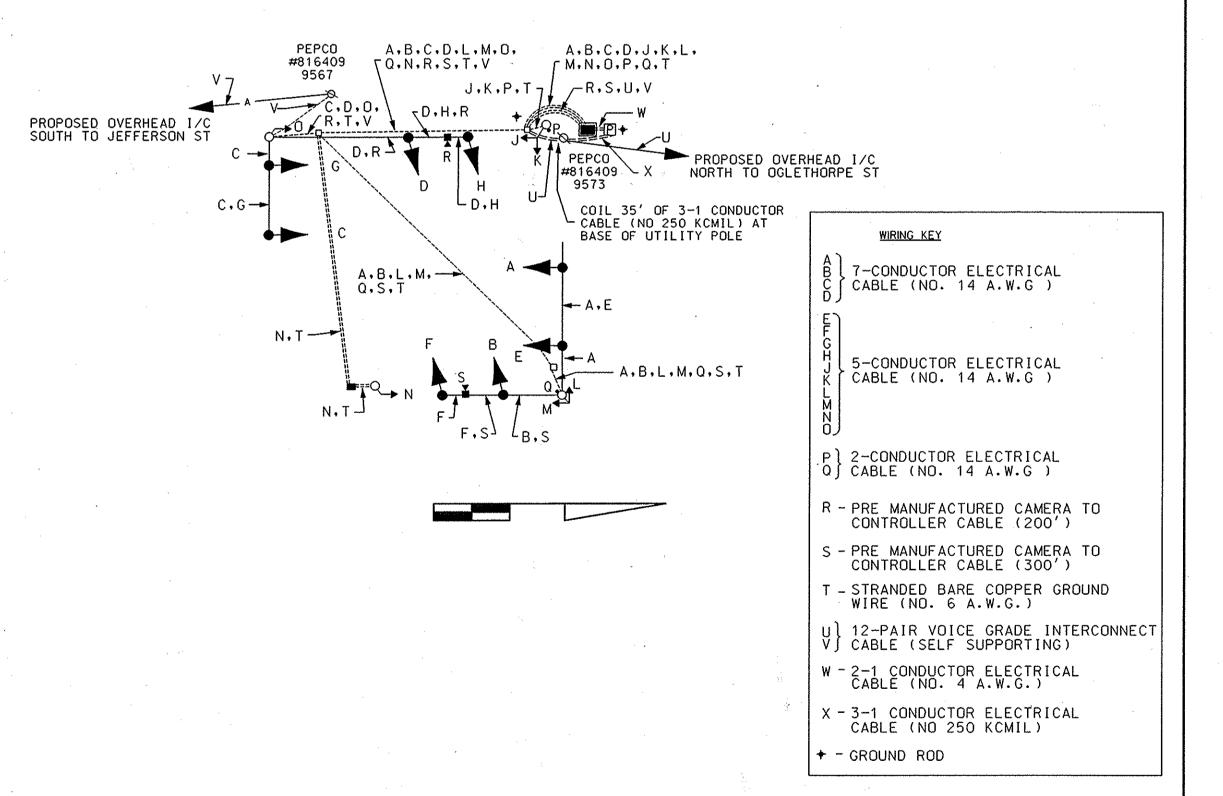
Mr Richard Chilcoat 8300 Old Marlboro Pike Upper Marlboro, MD 20772

PHASE CHART

1 2 3 4 5 6 7 8 9 10 11 12 13 14

	(R) (Y) (G)	R Y G	R Y G	RY	R	R Y G	R Y G	(R) (Y) (G)	(M)	P	P	M L	№	影	
PHASE 2 & 6	G	G	G	G	R	. R	R	R	WK	WK	WK	WK	DW	DW	1
PED CLEAR	G	G	G	G	R	: R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	D₩	1
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 4 & 8	R	R	Ŗ	R	G	G	G	G	DW	DW	DW	DW	DW	DW	1.
4 & 8 CHANGE	R	R	R	R	Υ	Ý	Y	Υ	DW	DW	DW	DW	DW .	DW	-
PHASE 4 & 8 ALT	R	R	R	R	G	- G	G.	G	DW	DW	DW	DW	WK	WK	<u> </u>
PED CLEARANCE	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	* ^
4 & 8 ALT CHANGE	R	R	R	. R	Y	Y	Y	Y	DW	DW	D₩	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	+

WIRING DIAGRAM





MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

US 1 AND MADISON AVE/CLEVELAND AVE

CHAPPECISAGE PER TOTAL T

TS: NO. AT5665185-S.H.A. NO. SHEET NO. PRINCE GEORGE'S NONE COUNTY: T.I.M.S. NQ. D6-3 DATE: 2/15/05 LOG MILE: 16000102.18 [©] G633

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